

7.7.4 String Literals

A string literal is zero or more characters enclosed in single or double quotes. Each character may be represented by an escape sequence.

Syntax

StringLiteral ::

" *DoubleStringCharacters*_{opt} "
' *SingleStringCharacters*_{opt} '

DoubleStringCharacters ::

DoubleStringCharacter *DoubleStringCharacters*_{opt}

SingleStringCharacters ::

SingleStringCharacter *SingleStringCharacters*_{opt}

DoubleStringCharacter ::

SourceCharacter **but not** double-quote " **or** backslash \ **or** *LineTerminator*
EscapeSequence

SingleStringCharacter ::

SourceCharacter **but not** single-quote ' **or** backslash \ **or** *LineTerminator*
EscapeSequence

EscapeSequence ::

CharacterEscapeSequence
OctalEscapeSequence
HexEscapeSequence
UnicodeEscapeSequence

CharacterEscapeSequence ::

\ *SingleEscapeCharacter*
\ *NonEscapeCharacter*

SingleEscapeCharacter :: one of

' " \ b f n r t v

NonEscapeCharacter::

SourceCharacter **but not** *EscapeCharacter* **or** *LineTerminator*

EscapeCharacter ::

SingleEscapeCharacter
OctalDigit
x
u

HexEscapeSequence ::

x *HexDigit* *HexDigit*

OctalEscapeSequence ::

\ *OctalDigit*
\ *OctalDigit* *OctalDigit*
\ *ZeroToThree* *OctalDigit* *OctalDigit*

ZeroToThree :: one of

0 1 2 3

UnicodeEscapeSequence ::
 $\backslash \mathbf{u}$ *HexDigit HexDigit HexDigit HexDigit*

The definitions of the nonterminals *HexDigit* and *OctalDigit* are given in section [Error: Reference source not found](#).

The above grammar contains an ambiguity where sequences like $\backslash 00$ can be interpreted either as a one-digit *OctalEscapeSequence* followed by a *SourceCharacter* or as a two-digit *OctalEscapeSequence*. This ambiguity is resolved in favor of the longer *OctalEscapeSequence*. Specifically, we amend the grammar to state that a one-digit *OctalEscapeSequence* expansion applies only if the next character is not an *OctalDigit*. A two-digit *OctalEscapeSequence* expansion whose first digit is between **0** and **3**, inclusive, applies only if the next character is not an *OctalDigit*.